Polysulphate®

Trial

Corn
(Zea mays)
on okolona silty clay

Polysulphate fertilizer is a soluble, easily-absorbed, cost-effective answer to crop nutrition, containing four key plant nutrients: sulfur, potassium, magnesium and calcium.

S	19.2% S
K	14% K_2O
Mg	3.6% Mg
Ca	12.2% Ca

ICL

When

Planting Date:
April 21, 2021
Harvest Date:
September 13, 2021

Where

Brooksville, Mississippi USA
(Mississippi State University)

Crop

Corn
(Zea mays)

Soil type

Okolona Silty Clay (3% soil organic matter)

Measurements

Yield (Bu/A)

Objective

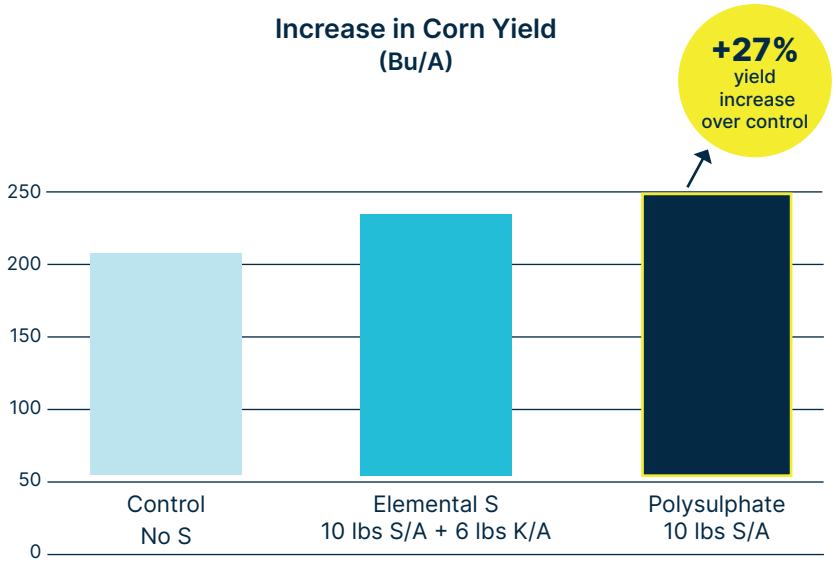
Evaluate the performance of Polysulphate fertilizer rates in corn when applied spring pre-plant, compared to equivalent units of sulfur (S) applied in the standard grower program as elemental S.

Treatments

This randomized complete block trial consisted of three replicates with 9 treatments. All application was done pre-plant incorporated. Potassium Chloride (KCL) was applied with the elemental sulfur (S) to match K level in Polysulphate. Polysulphate and elemental sulfur was tested to supply up to 40 lbs/A actual sulfur. Treatments shown here include: Control (without S application), Polysulphate 10 lbs S/A and Elemental S 10 lbs S/A + 6 lb K/A

Results

- Corn yield increased with application of sulfur fertilizer.
- Polysulphate at 10 lbs S/A increased corn yield compared to the control without sulfur.
- Polysulphate at 10 lbs S/A increased corn yield by 7% compared to S plus KCL applied at the same rate.



Conclusion

- Polysulphate could be used as a viable source of sulfur in corn production on high organic matter soil with high soil test sulfur in Mississippi

Mined in the UK, ICL is the first – and only – producer in the world to mine polyhalite, marketed as Polysulphate.

Polysulphate

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